

09/15/00
1c915 U.S. PTO

9/18/00

907 U.S. PTO
09/15/00

Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 C.F.R. § 1.53 (b))</small>	Attorney Docket No.	8058-PA01
	First Inventor or Application Identifier	Alexander Marc Jacques Brouaux
	Title	DYNAMIC GRAPHIC USER INTERFACE
	Express Mail Label No.	EL 584 702 494 45

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
--	--

1. ☒ *Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Specification
(preferred arrangement set forth below) [Total Pages
 - Descriptive title of invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claims(s)
 - Abstract of the Disclosure

3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets

4. ☐ Oath or Declaration [Total Pages

a. ☒ Newly executed (original or copy)

b. ☐ Copy from a prior application (37 C.F.R. § 1.63 (d))
(for continuation/divisional with Box 16 completed)

i. ☐ **DELETION OF INVENTOR(S)**
Signed Statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§1.63(d)(2) and 1.33(b)

5. ☐ Microfiche Computer Program (Appendix)

6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

a. ☐ Computer Readable Copy

b. ☐ Paper Copy (identical to computer copy)

c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 CFR §3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. ☒ *Small Entity Statement(s) ☒ Statement filed in prior application, Status still proper and desired
(PTO/SB/09-12)
14. ☐ Certified copy of Priority Document(s)
(if foreign priority is claimed)
15. ☐ Other:

***NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37C.F.R. § 1.28).**

16. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior Application No: 60/153,993 (Provisional)

Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS


Name	BROWN, MARTIN, HALLER & McCLAIN, LLP				
Address	1660 UNION STREET				
City	SAN DIEGO, CALIFORNIA 92101-2926				
Country	USA	Telephone	(619) 238-0999	Fax	(619) 238-0062

Name (Print/Type)	Edward C. Schewe	Registration No. (Attorney/Agent)	34,246
Signature	<i>EC Schewe</i>	Date	September 15, 2000

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2000</h2> <p style="font-size: small; margin: 0;">Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.</p>	<p style="text-align: center; margin: 0;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>UNKNOWN</td> </tr> <tr> <td>Filing Date</td> <td>HEREWITH</td> </tr> <tr> <td>First Named Inventor</td> <td>Alexander Marc Jacques Brouaux</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Group / Art Unit</td> <td></td> </tr> <tr> <td>Attorney Docket No.</td> <td>8058-PA01</td> </tr> </table>	Application Number	UNKNOWN	Filing Date	HEREWITH	First Named Inventor	Alexander Marc Jacques Brouaux	Examiner Name		Group / Art Unit		Attorney Docket No.	8058-PA01
Application Number	UNKNOWN												
Filing Date	HEREWITH												
First Named Inventor	Alexander Marc Jacques Brouaux												
Examiner Name													
Group / Art Unit													
Attorney Docket No.	8058-PA01												
TOTAL AMOUNT OF PAYMENT (\$) 345.00													

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																																																																																																																																						
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number 02-4070</p> <p>Deposit Account Name BROWN, MARTIN, HALLER & McCLAIN</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §§ 1.16 and 1.17</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other </p>	<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - Late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (1)</td> <td colspan="2"></td> <td colspan="2" style="text-align: right;">SUBTOTAL (3)</td> </tr> <tr> <td colspan="2" style="text-align: right;">(\$)345.00</td> <td colspan="2"></td> <td colspan="2" style="text-align: right;">(\$)</td> </tr> </tbody> </table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - Late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	380	216	190	Extension for reply within second month		117	870	217	435	Extension for reply within third month		118	1,360	218	680	Extension for reply within fourth month		128	1,850	228	925	Extension for reply within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of appeal		121	260	221	130	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,210	241	605	Petition to revive - unintentional		142	1,210	242	605	Utility issue fee (or reissue)		143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	690	246	345	Filing a submission after final rejection (37 CFR 1.129(a))		149	690	249	345	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						SUBTOTAL (1)				SUBTOTAL (3)		(\$) 345.00				(\$)																																																																																																																									
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																		
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																																				
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																																																																																																			
127	50	227	25	Surcharge - Late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																																																																			
139	130	139	130	Non-English specification																																																																																																																																																																																																																																																																																																																			
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																																																																																																																																																			
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																																																																																																			
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																																																																																																			
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																																																																																																																			
116	380	216	190	Extension for reply within second month																																																																																																																																																																																																																																																																																																																			
117	870	217	435	Extension for reply within third month																																																																																																																																																																																																																																																																																																																			
118	1,360	218	680	Extension for reply within fourth month																																																																																																																																																																																																																																																																																																																			
128	1,850	228	925	Extension for reply within fifth month																																																																																																																																																																																																																																																																																																																			
119	300	219	150	Notice of Appeal																																																																																																																																																																																																																																																																																																																			
120	300	220	150	Filing a brief in support of appeal																																																																																																																																																																																																																																																																																																																			
121	260	221	130	Request for oral hearing																																																																																																																																																																																																																																																																																																																			
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																																																																																																			
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																																																																																																																																																																			
141	1,210	241	605	Petition to revive - unintentional																																																																																																																																																																																																																																																																																																																			
142	1,210	242	605	Utility issue fee (or reissue)																																																																																																																																																																																																																																																																																																																			
143	430	243	215	Design issue fee																																																																																																																																																																																																																																																																																																																			
144	580	244	290	Plant issue fee																																																																																																																																																																																																																																																																																																																			
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																																																																																																																			
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																																																																																																																																																			
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																																																																																																			
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																																																																																																			
146	690	246	345	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																																																																																																																																			
149	690	249	345	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																																																																																																																																			
Other fee (specify) _____																																																																																																																																																																																																																																																																																																																							
Other fee (specify) _____																																																																																																																																																																																																																																																																																																																							
SUBTOTAL (1)				SUBTOTAL (3)																																																																																																																																																																																																																																																																																																																			
(\$) 345.00				(\$)																																																																																																																																																																																																																																																																																																																			
<p>1. BASIC FILING FEE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>345.00</td></tr> <tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (1)</td> <td colspan="2"></td> <td colspan="2" style="text-align: right;">(\$)345.00</td> </tr> </tbody> </table> <p>2. EXTRA CLAIM FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Total Claims</th> <th colspan="2">Extra Claims</th> <th rowspan="2">Fee from below</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>3</th> <th>-20**=</th> <th>0</th> <th>X</th> </tr> </thead> <tbody> <tr> <td>00</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Independent Claims</td> <td>3</td> <td>- 3**=</td> <td>0</td> <td>X</td> <td>00</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><small>**or number previously paid, if greater. For Reissues, see below.</small></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>**Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (2)</td> <td colspan="2"></td> <td colspan="2" style="text-align: right;">(\$)</td> </tr> </tbody> </table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	101	690	201	345	Utility filing fee	345.00	106	310	206	155	Design filing fee		107	480	207	240	Plant filing fee		108	690	208	345	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1)				(\$) 345.00		Total Claims		Extra Claims		Fee from below	Fee Paid	3	-20**=	0	X	00						Independent Claims	3	- 3**=	0	X	00	Multiple Dependent						Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	**Reissue independent claims over original patent		110	18	210	9	**Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)				(\$)		<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - Late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL (1)</td> <td colspan="2"></td> <td colspan="2" style="text-align: right;">SUBTOTAL (3)</td> </tr> <tr> <td colspan="2" style="text-align: right;">(\$)345.00</td> <td colspan="2"></td> <td colspan="2" style="text-align: right;">(\$)</td> </tr> </tbody> </table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - Late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	380	216	190	Extension for reply within second month		117	870	217	435	Extension for reply within third month		118	1,360	218	680	Extension for reply within fourth month		128	1,850	228	925	Extension for reply within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of appeal		121	260	221	130	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,210	241	605	Petition to revive - unintentional		142	1,210	242	605	Utility issue fee (or reissue)		143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	690	246	345	Filing a submission after final rejection (37 CFR 1.129(a))		149	690	249	345	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						SUBTOTAL (1)				SUBTOTAL (3)		(\$) 345.00				(\$)	
Large Entity		Small Entity		Fee Description			Fee Paid																																																																																																																																																																																																																																																																																																																
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																																				
101	690	201	345	Utility filing fee	345.00																																																																																																																																																																																																																																																																																																																		
106	310	206	155	Design filing fee																																																																																																																																																																																																																																																																																																																			
107	480	207	240	Plant filing fee																																																																																																																																																																																																																																																																																																																			
108	690	208	345	Reissue filing fee																																																																																																																																																																																																																																																																																																																			
114	150	214	75	Provisional filing fee																																																																																																																																																																																																																																																																																																																			
SUBTOTAL (1)				(\$) 345.00																																																																																																																																																																																																																																																																																																																			
Total Claims		Extra Claims		Fee from below	Fee Paid																																																																																																																																																																																																																																																																																																																		
3	-20**=	0	X																																																																																																																																																																																																																																																																																																																				
00																																																																																																																																																																																																																																																																																																																							
Independent Claims	3	- 3**=	0	X	00																																																																																																																																																																																																																																																																																																																		
Multiple Dependent																																																																																																																																																																																																																																																																																																																							
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																		
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																																				
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																																																																																																																																			
102	78	202	39	Independent claims excess of 3																																																																																																																																																																																																																																																																																																																			
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																																																																																																																																																																			
109	78	209	39	**Reissue independent claims over original patent																																																																																																																																																																																																																																																																																																																			
110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																																																																																			
SUBTOTAL (2)				(\$)																																																																																																																																																																																																																																																																																																																			
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																		
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																																				
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																																																																																																			
127	50	227	25	Surcharge - Late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																																																																			
139	130	139	130	Non-English specification																																																																																																																																																																																																																																																																																																																			
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																																																																																																																																																			
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																																																																																																			
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																																																																																																			
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																																																																																																																			
116	380	216	190	Extension for reply within second month																																																																																																																																																																																																																																																																																																																			
117	870	217	435	Extension for reply within third month																																																																																																																																																																																																																																																																																																																			
118	1,360	218	680	Extension for reply within fourth month																																																																																																																																																																																																																																																																																																																			
128	1,850	228	925	Extension for reply within fifth month																																																																																																																																																																																																																																																																																																																			
119	300	219	150	Notice of Appeal																																																																																																																																																																																																																																																																																																																			
120	300	220	150	Filing a brief in support of appeal																																																																																																																																																																																																																																																																																																																			
121	260	221	130	Request for oral hearing																																																																																																																																																																																																																																																																																																																			
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																																																																																																			
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																																																																																																																																																																			
141	1,210	241	605	Petition to revive - unintentional																																																																																																																																																																																																																																																																																																																			
142	1,210	242	605	Utility issue fee (or reissue)																																																																																																																																																																																																																																																																																																																			
143	430	243	215	Design issue fee																																																																																																																																																																																																																																																																																																																			
144	580	244	290	Plant issue fee																																																																																																																																																																																																																																																																																																																			
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																																																																																																																			
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																																																																																																																																																			
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																																																																																																			
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																																																																																																			
146	690	246	345	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																																																																																																																																			
149	690	249	345	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																																																																																																																																			
Other fee (specify) _____																																																																																																																																																																																																																																																																																																																							
Other fee (specify) _____																																																																																																																																																																																																																																																																																																																							
SUBTOTAL (1)				SUBTOTAL (3)																																																																																																																																																																																																																																																																																																																			
(\$) 345.00				(\$)																																																																																																																																																																																																																																																																																																																			

SUBMITTED BY				Complete (if applicable)	
Name (Print/Type)	Edward C. Schewe	Registration No. (Attorney/Agent)	34,246	Telephone	(619) 238-0999
Signature				Date	September 15, 2000

WARNING:

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

- 1 -

DYNAMIC GRAPHIC USER INTERFACE

RELATED APPLICATION DATA

5 This application claims the benefit of U.S. Provisional Application Serial
No. 60/153,993 filed September 15, 1999, the disclosure of which is
incorporated herein by reference.

BACKGROUND OF THE INVENTION

10 The invention described and claimed herein relates generally to user
interfaces for computer systems and more particularly, graphical user interfaces.
A graphical user interface or "GUI" facilitates communications between a
computer operating system and a computer user. The computer system
includes software and hardware, including hardware for a GUI which typically
includes both a visual display (commonly a computer monitor) and selector
15 device (commonly a mouse, trackball or keyboard). Through the visual display,
the computer system can deliver graphical and textual output to the user.

 A conventional GUI is made up of elements presented on the visual
display which allow a user to activate an application in a computer operating
system. Examples of such elements are the buttons, menus, menu items, scroll
20 bars and the text input fields. Elements give the application the opportunity to

- 2 -

display information, such as zones of text or graphical displays. The layout of all the elements of a conventional GUI is generally already setup by the designer of the application, such as in the well-known WINDOWS® operating system made by Microsoft Corporation of Redmond, Washington.

5 Therefore, limited opportunities are presently available to reconfigure conventional computer applications. These typically include adjusting the position of certain controls like the toolbars. Such interfaces can be regarded as static because they do not allow the possibility of configuration by end-users. Moreover, all these elements are often of a rectangular or square shape, which
10 is neither visually stimulating nor very pleasing to the eye.

SUMMARY OF THE INVENTION

The present invention provides a method and system by which users can completely reorganize a GUI to his or her personal taste. For clarity, the term element as used herein is the object which a user can move on the display
15 device or computer screen using his or her selector device. The element is comprised of a core and an adjacent dynamic zone or edge. The core is the central part of the element. It is this core that is managed by the application program that uses the interface. The edge is the dynamic zone that preferably

- 3 -

surrounds the core. The edge manager is the software taking care of the management, the calculation and the display of the dynamic edges.

In a preferred embodiment, each element of the user interface in the present invention is surrounded by a dynamic edge instead of being surrounded by a static edge as in conventional systems. The present invention does not limit the shape of the core of the element to be rectangular, but allows the elements to be of any shape and in one or more pieces. The dynamic aspect of the present invention comes from the possibility of sticking or adhering together several cores in a visually coherent unit and doing it in real time.

For example, in one aspect, a user can manipulate his or her mouse and move an element, say element 1 which is green in color, towards element 2 which is red in color. The edges of element 1 merge with the edges of element 2 in real time and are updated at each movement by the edge manager, provided that the cores of the elements are not overlapping. In one aspect, this merging can be reversed and the user needs only to move one of the two elements away from the other element so that they no longer contact each other and the edges of the respective elements return to their initial size, shape and/or color.

- 4 -

Thus, it is an object of the present invention to provide a dynamic graphic user interface. Other and further objects will appear to those skilled in the art from the specification and drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

5 Figure 1 is an illustration of two elements of the inventive graphical user interface and the two elements combined or fused together.

Figure 2 illustrates a group of elements in one embodiment of the present invention.

10 Figure 3 illustrates the group of elements in a tree arrangement illustration of an embodiment of the present invention.

Figure 4 shows an embodiment with a static element.

Figure 5a shows one embodiment of an element.

Figure 5b is a graphical illustration of the height values of the element from Figure 5a taken along line 5b - 5b.

15 Figure 6 shows an embodiment showing the fusion of edges of dynamic zones of two elements.

Figure 7 is a flow diagram summarizing an initialization procedure for one embodiment of the invention.

- 5 -

Figure 8 is a flow diagram illustrating a calculation process for the merging of the dynamic zones or edges of one or more elements in an embodiment.

Figure 9 is an illustration showing one use of the present invention with elements of different shapes.

5 Figure 10 is an illustration showing another use of the present invention with the elements arranged to form a design in the shape of an alligator.

Figure 11 is a further illustration showing the elements of the present invention arranged to form a design in the shape of a locomotive.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

10 In the specific embodiments to be described, the invention provides a dynamic graphic user interface in an application program.

Turning now to Figures 5a and 5b, the element 10 is shown with the core 12 and edge or dynamic zone 14 in a preferred embodiment. In Figure 5b, each point of the element 10 can be assigned a numerical value. This is illustrated
15 with a conventional x - y axis in Figure 5b, with the y-axis values representing the numerical value assigned to the point, also called a height value. For all the points which are inside the core 12, the height is preferably equal to a value of one as illustrated in Figure 5b.

- 6 -

For all points which correspond to the edge 14, the height varies from a value of one, if the point is close to the core 12, and tends towards zero value as one moves away from the core 12 as also shown in Figure 5b. Persons skilled in the art will recognize that the two-dimensional representation in Figure 5b applies to other transverse sections through the element 10 and that the core 12 and edge 14 can be represented by a three dimensional array of height values.

As shown schematically in Figure 7, the array of height values is initialized at the creation of an element 10 according to the shape of the core 12. The initialization procedure is a process that associates the core 12 of an element 10 with a edge or dynamic border 14. At step 700, the graphical resources are searched and resources for the core mask 700a and core pictures 700b is searched to find one that matched the shape of the core 12. The edge of dynamic border 14 is computed using a previously defined mask of the core 12 provided for the element 10. From this mask, the shape of the core 12 is extracted and using this shape the array of height values for the edge 14 are calculated as described in connection with Figures 5a and 5b and the result is shown at step 704 in Figure 7. As can be appreciated by skilled persons, once

- 7 -

this array is calculated it can then be modified to render different textures and colors for each element 10.

In a preferred embodiment shown in Figure 6, a user can fuse together two or more edges 14 and 14a of two or more elements 10 and 10a. A preferred operation of the edge manager of the specific embodiment for fusing two or more edges 14 and 14a is described in connection with Figure 8. At the start of Figure 8, the user moves first element (designated A) in step 800. Block 800A is the process of retrieving the list of elements that are touching element A. In detail, step 802 reviews the global list of elements and a determination is made at step 804 as to whether the next element is touching element A. If the answer is yes, then step 806 adds that element to the touching list and then transfers the operation to step 808. If the answer is no, the operation is transferred to step 808 which asks if the current element is the last one in the global list. If the answer is no, then the operation is transferred back to step 802 to retrieve the next element in the global list, repeating the above steps for the next element. If the answer is yes, then the operation is transferred to Block 800B which is the merging block.

- 8 -

In detail, Block 800B retrieves the next element from the previously assembled touching list at step 810 and then, at step 812, asks if that element includes a dynamic border.

If the answer is yes, then the border of that element is merged with the
5 border of element A in step 814 and operation is transferred to step 816. If the answer at step 812 is no, the operation is transferred to step 816 which asks if the current element is the last one in the touching list. If the answer is no, operation is transferred back to step 810 to get the next element in the touching list. If the answer is yes, operation is transferred to step 820.

10 At step 820, the merged dynamic borders are rendered and then at step 830 the core and dynamic border is displayed. When the user moves an element 10 toward another element 10a, a determination is made if the borders of elements 10 and 10a are going to overlap and this process is done for all additional elements that overlap or touch element 10 as shown in Figure 8.
15 When two elements merge, the merged portion is calculated using the addition of two height arrays as shown graphically in Figure 6.

When an edge 14 merges with more than one other edge, the arrays corresponding to the touching edges 14 and 14a are added to obtain the global

- 9 -

array for the merged portion which will be the merged dynamic border. The merged edge array is equal to the sum of all the edge arrays of the elements in the merged group.

The melted color aspect of the edges is achieved by using the height values of each edge array to mix the colors of each element doing a weighted average. For two colors, say C1 and C2, and using the height of each edge, say a1 and a2, the melted or final color, Cf, of the global edge is preferably calculated using the equation:

$$C_f = (C_1 * a_1 + C_2 * a_2) / (a_1 + a_2)$$

10 Creation of Groups

If the edges 14 and 14a of two or more elements 10 and 10a are merged, it is possible to freeze or "stick together" all the elements as shown in Figure 2. This arrangement will behave in the same way that a single element 10 behaves and is called a group 30. This group 30 comprises as many cores 12 as there were in all the elements comprising the group 30 and the position of one of the cores 12 is fixed relative to the other cores in the group 30 as shown in Figure 2. This group 30 could be merged again with another element 10b. A group 30 behaves like a single element 10, so it is possible to create a new group 30a

- 10 -

from a set of elements composed of groups. As shown in Figure 2, a group 30a of three cores 12 is created and can be made of a single element which is yellow and another group 30 made up of a green element 10 and a red element 10a.

This grouping process can be repeated as long as elements remain to be "stuck" together. This grouping procedure can be represented as a tree structure as shown in Figure 3, whose "leaves" would be simple elements (10, 10a, 10b, . . .) and whose nodes would be the grouped elements. Once the group 30a is created, the elements of the group 30a can be removed from the group 30a. For example, as graphically illustrated in Figure 3, the elements can be removed by going along the tree from the group 30a and sequentially removing the elements from the group 30a so that only single elements remain. The user configured groups can include many different designs as illustrated in Figures 9, 10 and 11.

Static/Dynamic Aspect of the Edge

In another preferred embodiment, an edge 14 can be static meaning it cannot be merged with other edges 14a. In this embodiment, the static edge 14 behaves like a standard window and passes on top of the other elements as shown in Figure 4. In one embodiment, the static edge 14 can be altered to be

- 11 -

a dynamic edge. For example, if an element 10 with a static edge 14 is on top of another element 10a with a dynamic edge as shown in Figure 4, the static edge 14 can be turned into a dynamic edge if the core 12 of elements 10 does not overlap with any of the cores of element 10a. For the example shown in

5 Figure 4, the static edge 14 cannot be turned into a dynamic edge since its core 12 overlaps the cores of the overlapped or subjacent elements.

While embodiments of the present invention and modifications thereto have been shown and disclosed in the drawings and specification, alternate embodiments of the present invention will be apparent to a person of ordinary

10 skill in the art and this application is intended to include those embodiments within the full breadth and scope of the claims. The present invention is not limited by any parameters described herein and the present invention need not include all of the features disclosed in the single embodiment, but rather one or more features may be included.

15

What is claimed is:

2 1. A method utilizing a graphical user interface in a computer system,
comprising the steps of:

4 executing an application program within the computer system with a
graphical user interface comprising a plurality of elements, each of said elements

6 being associated with a set of commands; and

changing the shape of at least one of said elements when two or more

8 said elements are in close proximity.

2. A method utilizing a graphical user interface in a computer system,
comprising the steps of:

executing an application program with a graphical user interface

4 comprising a plurality of elements, each said element being associated with a set

of commands; and

6 fusing the edge of two or more of said elements together when said two
or more elements are in close proximity.

3. A method utilizing a graphical user interface in a computer system,

2 comprising the steps of:

executing an application program with a graphical user interface

4 comprising a plurality of elements, each said element being associated with a set
of commands; and

6 changing the graphical representation of one or more of the said elements

when two or more of said elements are in close proximity.

[illegible][illegible][illegible]

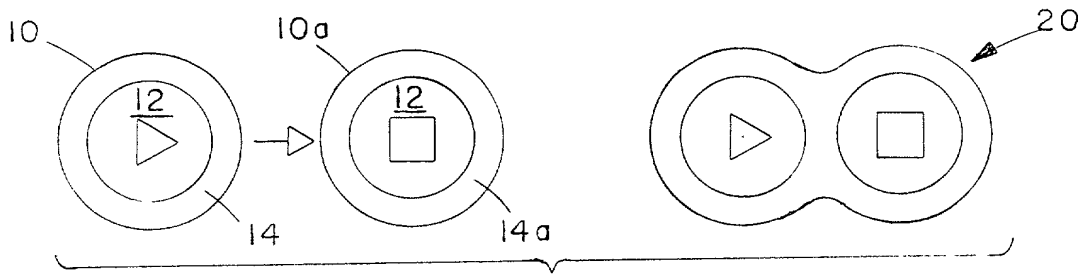


FIG. 1

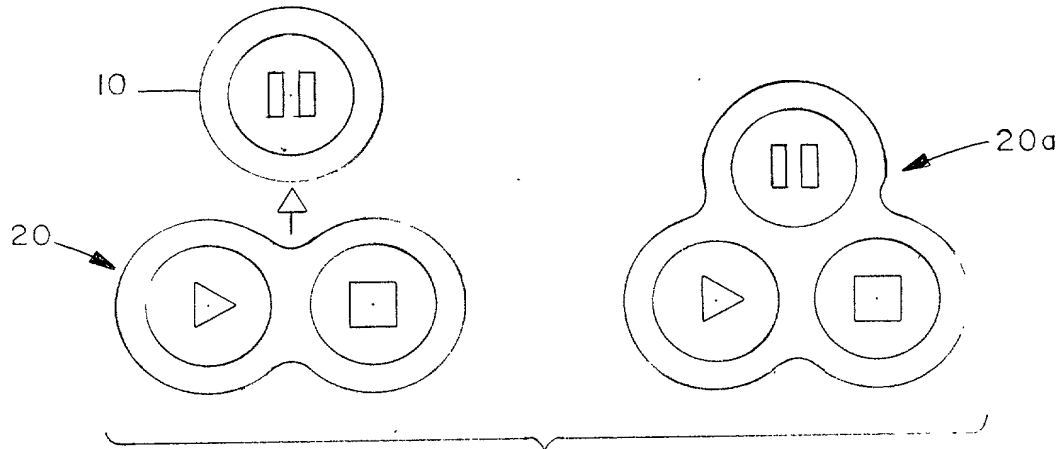


FIG. 2

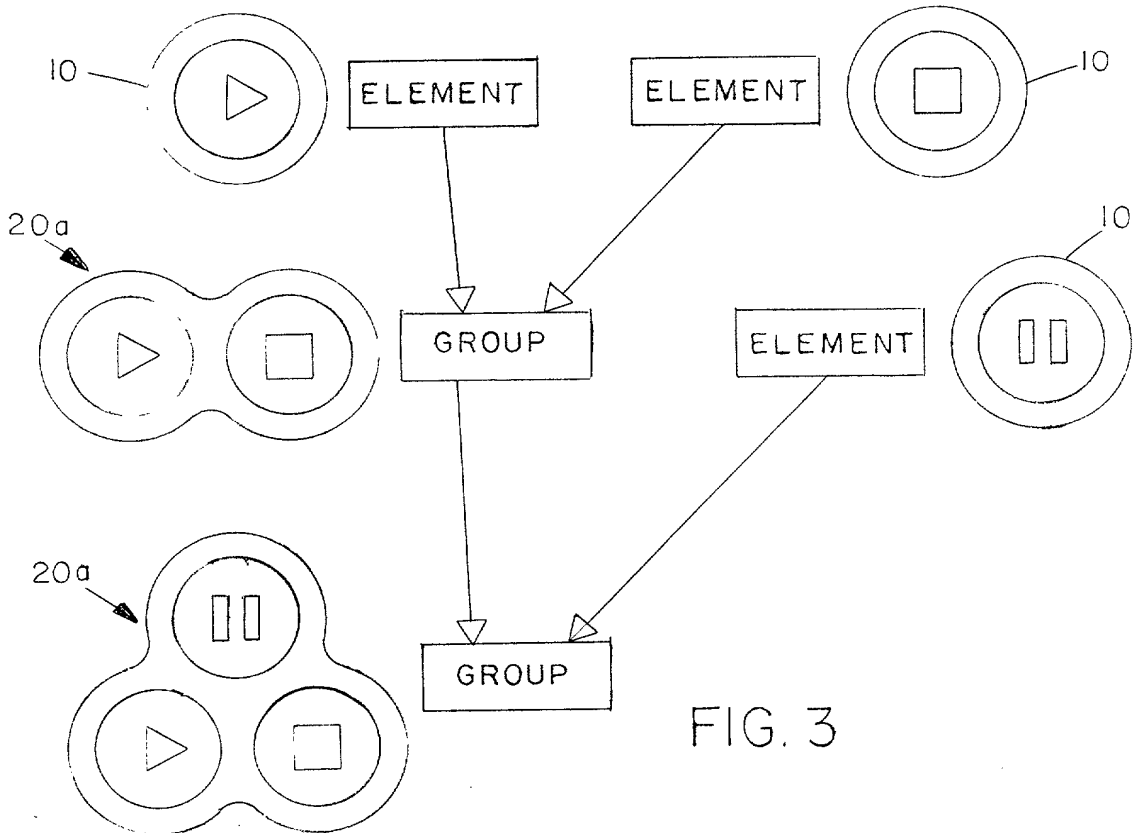
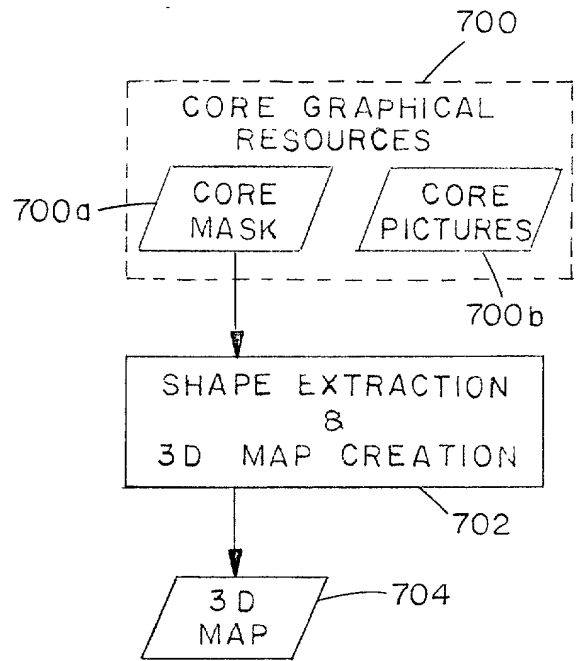
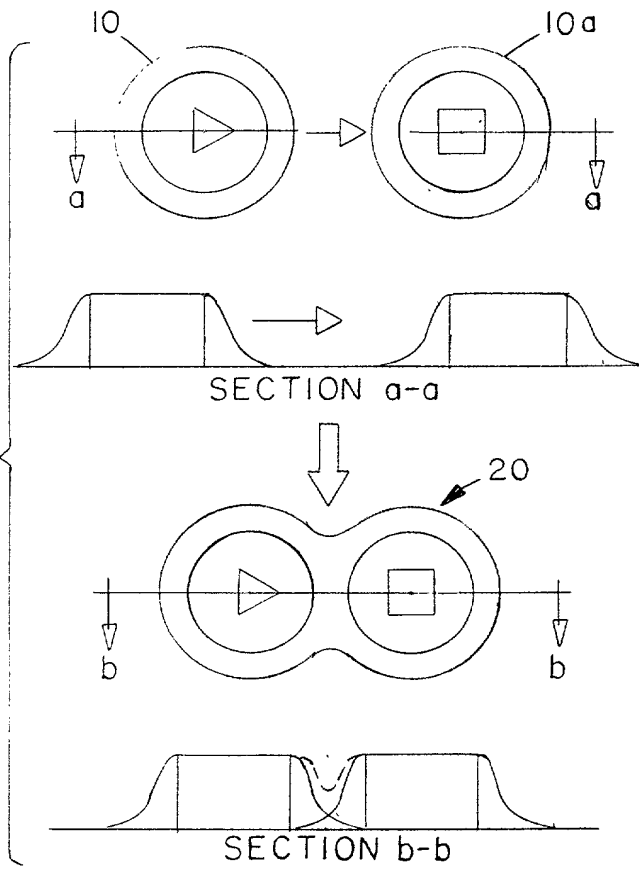
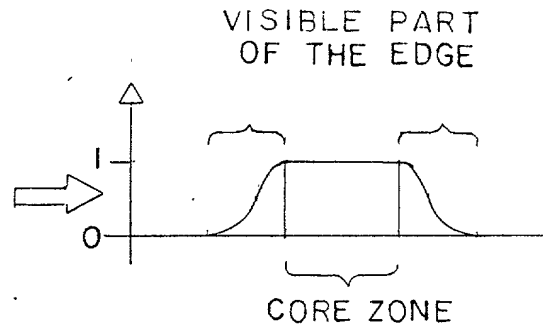
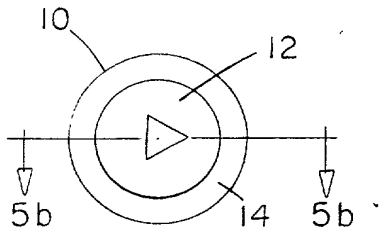
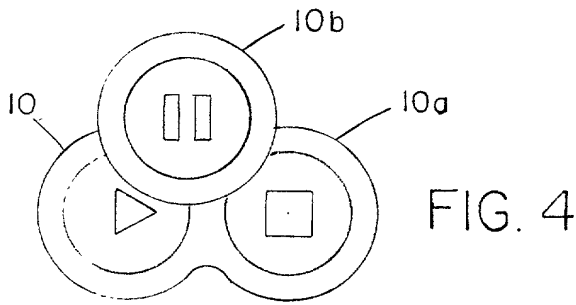


FIG. 3



3/5

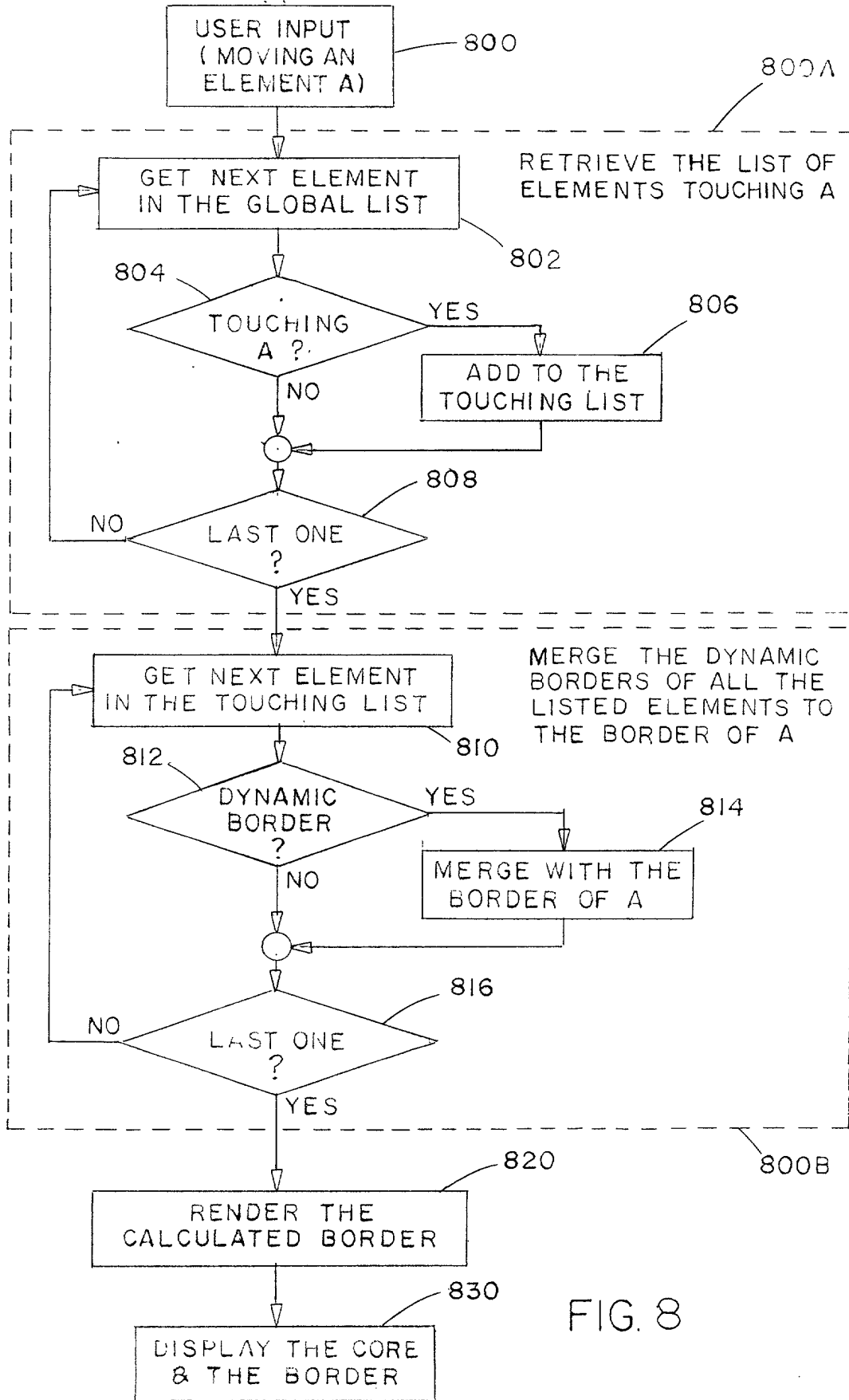


FIG. 8

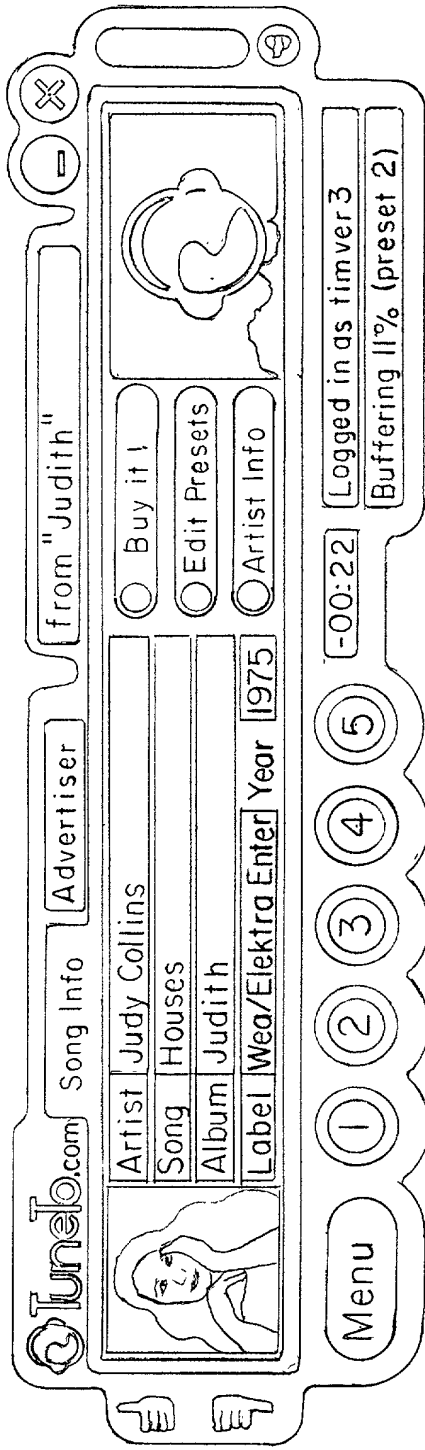


FIG. 9

4/5

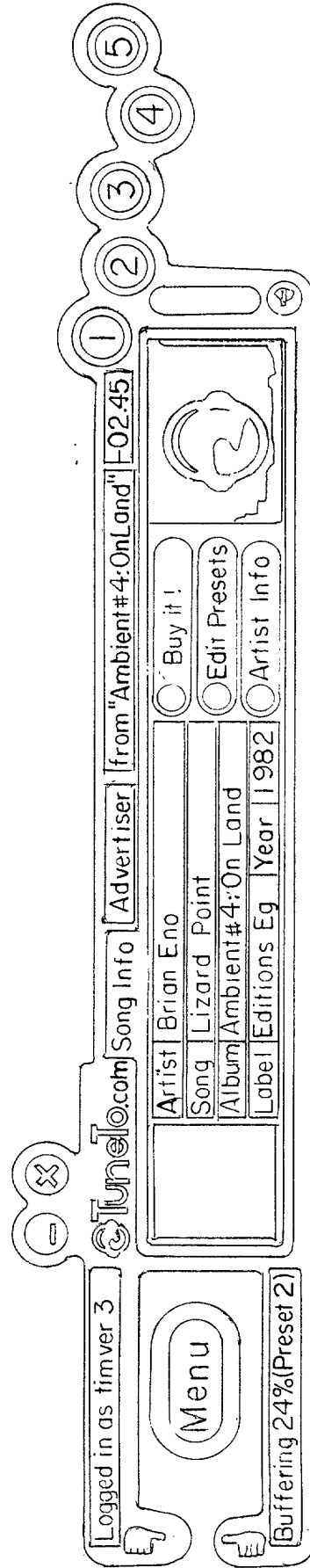


FIG. 10

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION



Declaration
Submitted with
Initial Filing



Declaration
Submitted after
Initial Filing

Attorney Docket

8058-PA01

First Named Inventor

Alexander Marc Jacques Brouaux

COMPLETE IF KNOWN

Application Number

UNKNOWN

Filing Date

HEREWITH

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DYNAMIC GRAPHIC USER INTERFACE

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable.)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Numbers	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Patent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Registered practitioner(s) name/registration number listed below:

Name	Registration Number	Name	Registration Number
NEIL F. MARTIN JOHN L. HALLER JAMES W. MCCLAIN	23,088 27,795 24,536	ELEANOR M. MUSICK EDWARD C. SCHEWE	35,623 34,246

Direct all correspondence to:

Attorney Name	Edward C. Schewe				
Address	BROWN, MARTIN, HALLER & MCCLAIN, LLP				
Address	1660 UNION STREET				
City	SAN DIEGO	State	CALIFORNIA	ZIP	92101
Country	USA	Telephone	(619) 238-0999	Fax	(619) 238-0062

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])			Last Name		
Alexander Marc Jacques			Brouaux		
Inventor's Signature		<i>Unsigned</i>			
Residence: City		Bretonneux	State	Country	FRANCE
Post Office Address		2 Rue Des Arvernes, 78180 Montigny Le, Bretonneux, France			
City		Bretonneux	State	Zip	Country
					France

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])			Last Name		
Inventor's Signature					
Residence: City			State	Country	Citizenship
Post Office Address					
Post Office Address					
City			State	Zip	Country

☐ Additional Inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.